

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 11-355558

(43)Date of publication of application : 24.12.1999

(51)Int.Cl.

H04N 1/387  
H04N 5/92

(21)Application number : 11-122464

(71)Applicant : HEWLETT PACKARD CO <HP>

(22)Date of filing : 28.04.1999

(72)Inventor : WONG PING WAH

(30)Priority

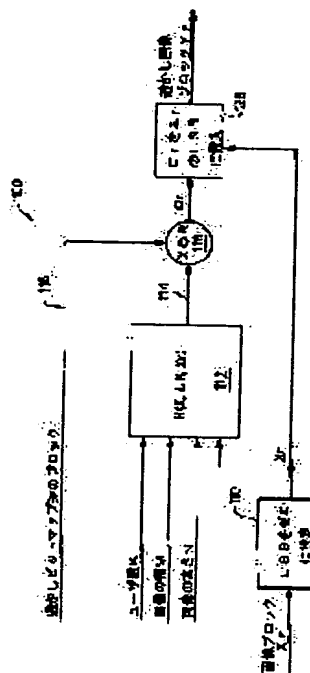
Priority number : 98 70470 Priority date : 30.04.1998 Priority country : US

## (54) WATERMARK INSERTING DEVICE

(57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a watermark inserting device for digital image which can detect not only a pixel value but also the change of image size and which can be used for public key or secret key watermark processing.

**SOLUTION:** This device is composed of a correction means 110 for generating a corrected image block by correcting at least one prescribed bit in an image block  $X_r$ , calculation means 112 for outputting a hash output 114 by calculating the application of a value corresponding to a code hash function, combination means 116 for generating a composited image block  $C_r$  by combining the hash output 114 and a watermark 118, and insertion means 126 for outputting a watermark processed image block  $Y_r$  by inserting the composited image block  $C_r$  into the corrected image block.



## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

BEST AVAILABLE COPY